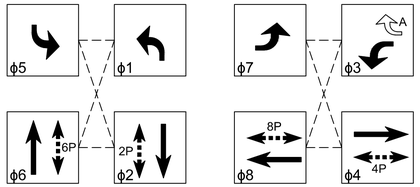
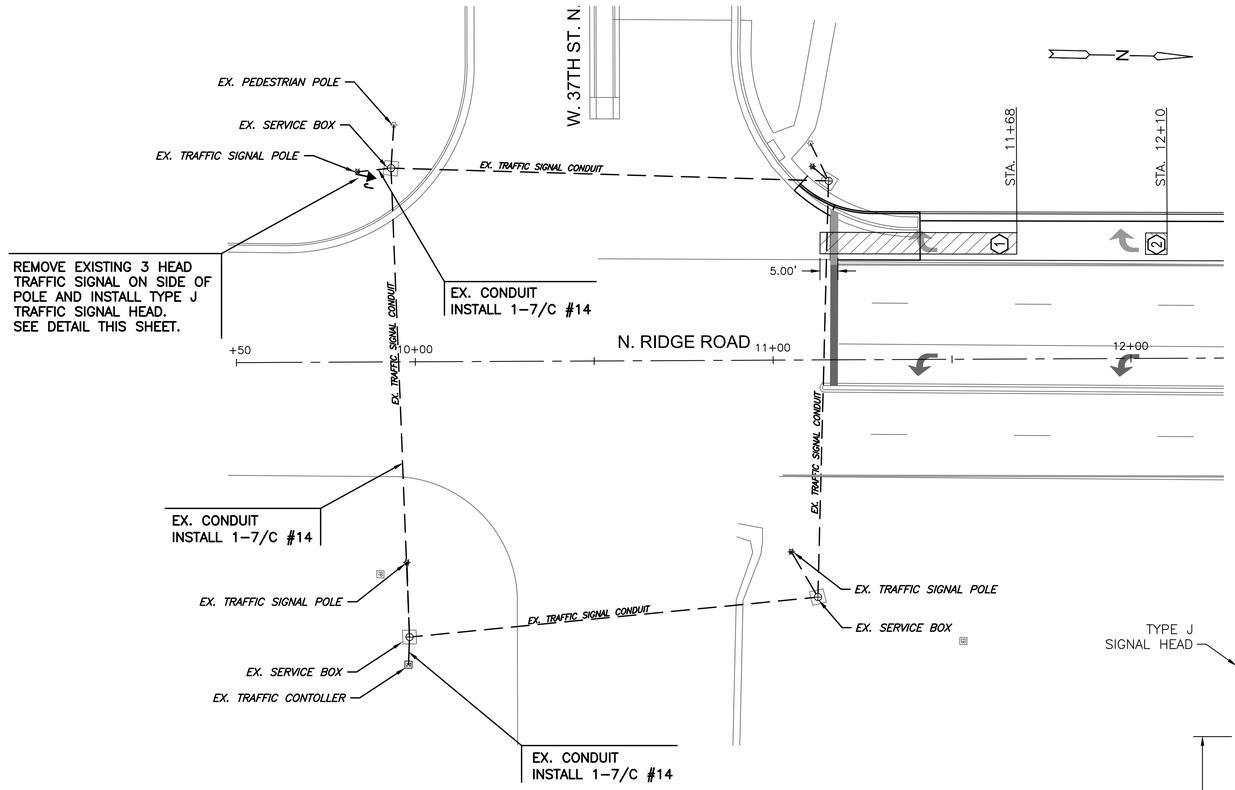
PLOTTED: Wednesday, July 31, 2024 @ 12:24PM

PHASE DIAGRAM

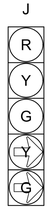


NOTE: DOTTED LINES CONNECTING PHASES INDICATE PHASES THAT CAN OCCUR CONCURRENTLY. PEDESTRIAN PHASE TO ONLY OCCUR AFTER PUSH BUTTON ACTIVATION.



SIGNAL FACES

NOTE: ALL LENSES SHALL BE 12" L.E.D.



LEGEND

- DETECTION ZONE
- EXISTING CONDUIT
- (1) DETECTOR NUMBER
- EXISTING SERVICE BOX
- EXISTING TRAFFIC SIGNAL POLE
- TRAFFIC SIGNAL HEAD W/TYPE DESIGNATION

DETECTOR SUMMARY

DETECTOR NUMBER	DETECTION ZONE SIZE	STOP BAR DETECTION	ADVANCED DETECTION	≠ TIMING (SEC) TOTAL STRETCH + EXTENSION	≠ TIMING (SEC) DELAY	MODE PRESENCE	MODE PULSE	PHASE CALLED	DISTANCE FROM STOP BAR
1	6' x 55'	X				X		3	5'
2	6' x 6'		X			X		8	92'

≠ TIMINGS SHOWN IN DETECTOR SUMMARY CHART INCLUDE THE TOTAL STRETCH + EXTENSION. DETECTOR TIMING SHALL BE PROGRAMMED INTO THE TRAFFIC SIGNAL CONTROLLER. SEE TRAFFIC SIGNAL GENERAL NOTES FOR ADVANCED DETECTION DISTANCE AND TIMING.

SUGGESTED TIMINGS (SEC.)

PHASE	MINIMUM INITIAL	*MAXIMUM GREEN SPLIT	**PEDESTRIAN WALK	**PEDESTRIAN FDW	**PEDESTRIAN SDW	***CLEARANCE YELLOW	***CLEARANCE ALL RED

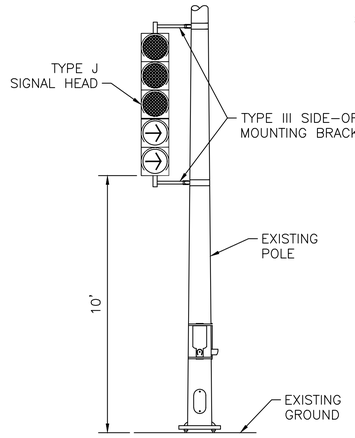
CLEARANCE DESIGN SPEEDS:
N. RIDGE ROAD = 40 MPH
W. 37TH ST. N. = 40 MPH

* MAXIMUM GREEN SPLIT IS FOR NON-PEDESTRIAN CALLS ONLY. TIMING INCORPORATES YELLOW & ALL RED CLEARANCE TIMES.

** PEDESTRIAN PHASING SHALL EXTEND PHASE WHEN CALLED IF APPROPRIATE. PEDESTRIAN CLEARANCE TIMES SHALL FOLLOW MUTCD GUIDELINES FOR PHASES.

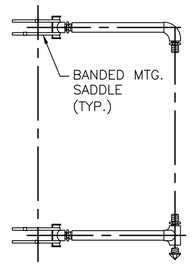
*** SIGNAL CLEARANCE TIMINGS ARE CALCULATED BASED ON RECOMMENDATIONS FROM NCHRP REPORT 731.

NOTES:
1. ALL MULTI-CONDUCTOR WIRE SHALL BE AWG #14 SOLID UNLESS SPECIFIED OTHERWISE. LABEL EACH WIRE AS SHOWN IN PART 700 SPECIFICATIONS.
2. SPLICES AT POLE BASE SHALL BE LINEMAN SPLICES PER SECTION 702.21.11. TERMINAL BLOCKS WILL NOT BE USED.
3. EXISTING CONDUIT SHALL BE USED FOR WIRING RUNS.



TRAFFIC SIGNAL INSTALLATION DETAIL

N.T.S.



TYPE III SIDE-OF-POLE MOUNTING BRACKET ASSEMBLY

N.T.S.

MKEC
Wichita, KS • 316.684.9600

PAVING PLANS FOR

RIDGE ROAD WIDENING

WICHITA, KANSAS

TRAFFIC SIGNAL WIRING PLAN

PROJECT NO. 472-2023-085940

SCALE N.T.S.

DRAWN	DESIGNED	CHECKED
WNJ	JRA	JRA

NO.	REVISION	DATE

SHEET NO. 21 OF 35

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J:\PROJECTS\2022\220101\0590_PH 5300_RIDGE ROAD WIDENING\0 220693 CAD\SHTS\05 CIVIL\SIGNAL\220693_TRAFFIC SIGNAL WIRING PLAN.DWG